

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mack, et al.

Application No.: 10/659,590

Group No.:

Filed: 9/10/2003

For: Method For The Nuclear Chlorination Of Ortho-Xylenes

Commissioner for Patent

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

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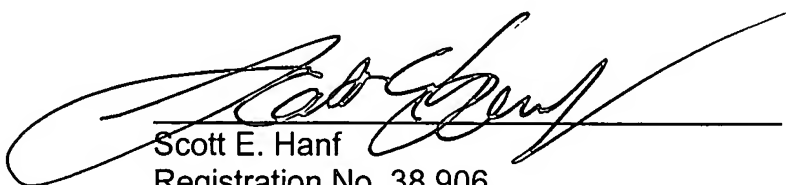
Dear Sir:

In accordance with the duty of disclosure provisions of 37 CFR §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith).

1. ☒ Enclosures accompanying this Information Disclosure Statement are:
 - 1a. ☒ Form PTO-1449.
 - 1b. ☒ Copies of Information Disclosure Statement citations.
 - 1c. ☒ EPO Search Report for application no. EP 03019807, mail date of 10/27/2003.
 - 1d. ☒ Copies of Co-pending U.S. Applications.
2. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(b) with the filing of the U.S. patent application. Accordingly, no fee or §1.97(e) Statement is required.
3. ☒ This Information Disclosure Statement is filed under 37 CFR §1.97(b) before the latter of three months after the U.S. patent application filing date or the first Office Action on the merits. Accordingly, no fee or §1.97(e) Statement is required.
4. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the first Office Action on the merits, but before a Final Office Action or a Notice of Allowance. The \$180.00 fee set forth in 37 CFR §1.17(p) in accordance with 37 CFR §1.97(c) is to be charged to Deposit Account No. 03-2060.
5. ☐ This Information Disclosure Statement is filed under 37 CFR §1.97(e) in that each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. Accordingly, no fee is required.
6. ☐ This Information Disclosure Statement is filed in conjunction with a Request For Continued Examination. Accordingly, no fee or §1.97(e) Statement is required.

7. ☒ The English language documents identified by reference in the TRANSLATION Section of the foreign patents list of the attached 1449 Form are believed to be a concise statement, or the equivalent or substantial equivalent to the foreign language documents cited in the attached 1449 Form.
8. ☒ In addition to the documents cited, the Office's attention is directed to the following co-pending U.S. Application Serial Number(s):
- a. U.S. serial no. 10/659,600, filed 9/10/2003, Mack et al.

Respectfully submitted,



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FORM PTO-1449 U.S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (37 CFR 1.98(b))	ATTY. DOCKET NO. 2002DE313	SERIAL NO. 10/659,590
	FILING DATE: 9/10/03	GROUP:



U.S. PATENT DOCUMENTS

Examiner Initial		Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,190,609	2/26/80	Lin	260	650 R	
	AB	4,289,916	9/15/81	Nakayama et al.	570	209	
	AC	4,444,983	4/24/84	Hattori et al.	570	209	
	AD	4,647,709	3/3/87	Wolfram	570	209	
	AE	5,177,268	1/5/93	Balko et al.	568	726	
	AE	5,552,549	9/3/96	Rasp et al.	546	139	
	AG	5,625,110	4/29/97	Schoedel et al.	585	641	
	AH	20020049357	4/25/02	Mais	570	237	
	AI						

FOREIGN PATENT OR PUBLISHED FOREIGN APPLICATION							
		DOCUMENT NUMBER	PUB. DATE	COUNTRY			TRANSLATION
	BA	EP 0 126 669	11/28/84	Europe			See CA Below
	BB	EP 0 173 222	3/5/86	Europe			See AD Above
	BC	WO 02/14245	2/21/02	WIPO			See AH Above
	BD						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication**)

	CA	English abstract for EP 0126669, 11/28/1984
	CB	Helmut Zahn et al., "DL-hydroxylysine und DL-allohydroxylysine und ihre lactone", Chemische Berichte Jahrg. 91, 1958, pp. 1359-1379
	CC	Ullmann's Encyclopadia of Industrial Chemistry, 5th edition, vol. A8, pp. 211-215
	CD	"Selective para chlorination of o-Xylene over zeolite catalysts", Journal of Catalysis, 150, 1994, pp. 430-433
	CE	Sudip Mukhopadhyay et al., "Palladium-catalyzed Aryl-Aryl coupling in water using molecular hydrogen: kinetics and process optimization of a solid-liquid-gas system", Tetrahedron, 55, 1999, pp. 14763-14768
	CF	Chemical abstract, CA 1998, Nr. 472737
	CG	Chemical abstract, CA 1991, Nr. 514135
	CH	
EXAMINER		DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		